

## SEQUENCE LISTING

<110> Hu, Jin-Shan  
 Craig, Rosen  
 Cao, Liang

<120> Vascular Endothelial Growth Factor-2

<130> PF112P3D1C1

<140> 09/935,726

<141> 2001-08-24

<150> 09/438,538

<151> 1999-11-12

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<170> PatentIn version 3.0

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 <223> 3' PCR primer  
  
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 <210> 16  
 <211> 3974  
 <212> DNA  
 <213> Escherichia coli  
  
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 ggtacctaaag tgagtagggc gtccgatcga cggacgcctt ttttttgaat tcgtaatcat 60  
 ggtcatagct gtttcctgtg tgaaattgtt atccgctcac aattccacac aacatacgag 120  
 ccggaagcat aaagtgtaaa gcctgggggtg cctaattgagt gagctaactc acattaattg 180  
 cgttgcgctc actgcccgtt ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa 240  
 tcggccaacg cgcggggaga ggcggtttgc gtattgggag ctcttccgct tcctcgctca 300  
 ctgactcgct gcgctcggtc gttcggctgc ggcgagcggc atcagctcac tcaaaggcgg 360  
 taatacgggt atccacagaa tcaggggata acgcaggaaa gaacatgtga gcaaaaggcc 420  
 agcaaaaggc caggaaccgt aaaaaggccg cgttgctggc gtttttccat aggcctccgc 480  
 cccctgacga gcatcacaaa aatcgacgct caagtcagag gtggcgaaac ccgacaggac 540  
 tataaagata ccaggcggtt cccctggaa gctccctcgt gcgctctct gttccgacct 600  
 tgccgcttac cggatacctg tccgcctttc tcccttcggg aagcgtggcg ctttctcata 660  
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 gaatcgggag cggcgatacc gtaaagcacg aggaagcggg cagcccatte gccgccaagc 2820  
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 cctgagtgtg tgcggcagcg tgaagcttaa aaaactgcaa aaaatagttt gacttgtgag 3900  
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 agaaattaca tatg 3974

<210> 17  
 <211> 112  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <221> promoter  
 <222> (1)..(112)  
 <223> pHE4a promoter

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 caattgtgag cggataacaa ttccacacat taaagaggag aaattacata tg 112

<210> 18  
 <211> 419  
 <212> PRT  
 <213> Homo sapiens

<400> 18

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Ala Leu Leu Pro Gly Pro Arg Glu Ala Pro Ala Ala Ala Ala Ala Phe  
 20 25 30

Glu Ser Gly Leu Asp Leu Ser Asp Ala Glu Pro Asp Ala Gly Glu Ala  
 35 40 45

Thr Ala Tyr Ala Ser Lys Asp Leu Glu Glu Gln Leu Arg Ser Val Ser  
 50 55 60

Ser Val Asp Glu Leu Met Thr Val Leu Tyr Pro Glu Tyr Trp Lys Met  
 65 70 75 80

Tyr Lys Cys Gln Leu Arg Lys Gly Gly Trp Gln His Asn Arg Glu Gln  
 85 90 95

Ala Asn Leu Asn Ser Arg Thr Glu Glu Thr Ile Lys Phe Ala Ala Ala  
 100 105 110

His Tyr Asn Thr Glu Ile Leu Lys Ser Ile Asp Asn Glu Trp Arg Lys  
 115 120 125

Thr Gln Cys Met Pro Arg Glu Val Cys Ile Asp Val Gly Lys Glu Phe  
 130 135 140

Gly Val Ala Thr Asn Thr Phe Phe Lys Pro Pro Cys Val Ser Val Tyr  
 145 150 155 160

Arg Cys Gly Gly Cys Cys Asn Ser Glu Gly Leu Gln Cys Met Asn Thr  
 165 170 175

Ser Thr Ser Tyr Leu Ser Lys Thr Leu Phe Glu Ile Thr Val Pro Leu  
 180 185 190

Ser Gln Gly Pro Lys Pro Val Thr Ile Ser Phe Ala Asn His Thr Ser  
 195 200 205

Cys Arg Cys Met Ser Lys Leu Asp Val Tyr Arg Gln Val His Ser Ile  
 210 215 220

Ile Arg Arg Ser Leu Pro Ala Thr Leu Pro Gln Cys Gln Ala Ala Asn  
 225 230 235 240

Lys Thr Cys Pro Thr Asn Tyr Met Trp Asn Asn His Ile Cys Arg Cys  
 245 250 255

Leu Ala Gln Glu Asp Phe Met Phe Ser Ser Asp Ala Gly Asp Asp Ser  
 260 265 270

Thr Asp Gly Phe His Asp Ile Cys Gly Pro Asn Lys Glu Leu Asp Glu  
 275 280 285

Glu Thr Cys Gln Cys Val Cys Arg Ala Gly Leu Arg Pro Ala Ser Cys  
 290 295 300

Gly Pro His Lys Glu Leu Asp Arg Asn Ser Cys Gln Cys Val Cys Lys

305		310		315		320
Asn Lys Leu Phe	Pro Ser Gln Cys Gly	Ala Asn Arg Glu	Phe Asp Glu			
	325	330	335			
Asn Thr Cys Gln	Cys Val Cys Lys Arg	Thr Cys Pro Arg	Asn Gln Pro			
	340	345	350			
Leu Asn Pro Gly	Lys Cys Ala Cys Glu	Cys Thr Glu Ser	Pro Gln Lys			
	355	360	365			
Cys Leu Leu Lys	Gly Lys Lys Phe His	His Gln Thr Cys	Ser Cys Tyr			
	370	375	380			
Arg Arg Pro Cys	Thr Asn Arg Gln Lys	Ala Cys Glu Pro	Gly Phe Ser			
	385	390	395	400		
Tyr Ser Glu Glu	Val Cys Arg Cys Val	Pro Ser Tyr Trp	Gln Arg Pro			
	405	410	415			

Gln Met Ser

<210> 19  
 <211> 30  
 <212> DNA  
 <213> Artificial sequence

<220>  
 <221> primer\_bind  
 <222> (1)..(30)  
 <223> 5' PCR primer

<400> 19  
 gcagcacata tgacagaaga gactataaaaa

30

<210> 20  
 <211> 30  
 <212> DNA  
 <213> Artificial sequence

<220>  
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 <222> (1)..(30)  
 <223> 3' PCR primer

<400> 20  
 gcagcaggta cctcacagtt tagacatgca

30

<210> 21  
 <211> 30  
 <212> DNA  
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<220>  
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 <222> (1)..(30)  
 <223> 3' PCR primer

<400> 21  
 gcagcaggta cctcaacgta taataatgga

30



<210> 22  
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<400> 22  
gcagcaggat cccacagaag agactataaa

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<210> 23  
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<400> 23  
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30

<210> 24  
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<213> Artificial sequence

<220>  
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<222> (1)..(39)  
<223> 5' PCR primer

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39

<210> 25  
<211> 36  
<212> DNA  
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<223> 5' PCR primer

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36

<210> 26  
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<212> DNA  
<213> Artificial sequence

<220>  
<221> primer\_bind

<222> (1)..(55)  
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 <210> 27  
 <211> 39  
 <212> DNA  
 <213> Artificial sequence  
  
 <220>  
 <221> primer\_bind  
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 <400> 27  
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 <210> 28  
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 <212> DNA  
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 <221> primer\_bind  
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 <400> 28  
 gactggatcc gccaccatgc actcgctggg cttcttctc 39  
  
 <210> 29  
 <211> 35  
 <212> DNA  
 <213> Artificial sequence  
  
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 <221> primer\_bind  
 <222> (1)..(35)  
 <223> 3' PCR primer  
  
 <400> 29  
 gactggtacc ttatcacata aaatcttcct gagcc 35  
  
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 <400> 30  
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<211> 34  
<212> DNA  
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<220>  
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34

<210> 32  
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<220>  
<221> primer\_bind  
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<400> 32  
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39

<210> 33  
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<212> DNA  
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<220>  
<221> primer\_bind  
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<223> 3' PCR primer

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37

<210> 34  
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<212> DNA  
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<220>  
<221> primer\_bind  
<222> (1)..(38)  
<223> 5' PCR primer

<400> 34  
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38

<210> 35  
<211> 37  
<212> DNA  
<213> Artificial sequence

<220>  
<221> primer\_bind  
<222> (1)..(37)  
<223> 3' PCR primer

<400> 35  
cgtcgttcta gatcacagtt tagacatgca tcggcag

37